



FIGURE 5.

This figure shows the 24 hour forecast of the vertical cross section along the axis C'-C from the Meso-Eta run of 1800Z Tuesday, 11 February 2003. Edwards AFB [EDW] in the Mojave Desert of Kern County is on the left [north]. On the right [south] is San Clemente Island located about 250 km south of Edwards. Note the sharp rise in elevation which corresponds to the San Gabriel Mountain Range which runs between 6000 and 7000 feet in elevation along the immediate path of the axis, C'-C. Also note the flat, elevated terrain of the Mojave Desert. Winds south of the mountain range are running east-southeast and at a small angle to the east-west ridge line. This would tend to minimize orographic enhancement of the rainfall. However, the 20+ micro-bar/sec vertical velocities, due the dynamics of the system, more than compensates—with the resulting heavy rainfall.